



PN392 SERIES

MonoGold® Line

About PN Solar

PN Solar is a private company which will manufacture photovoltaic solar panels in the United States of America, Ghana and Mexico. PN Solar's goal is to manufacture the highest rated solar panels, customized to meet the end-users power demands. By performing every step of the manufacturing process, PN Solar can customize each solar panel's chemical properties, color and size among other things. PN Solar's annual solar panel generating capacity during Phase 1 will be 675MW: 75MW in the U.S., 300MW in Ghana and 300MW in Mexico.

Performance

PN Solar's MonoGold Line PN365 Series solar panels have a power rating of 396 watts and a minimum life expectancy of 30 years. Each PN365 Series solar panel is made from 72 of the latest, N-Type, mono-crystalline, heterojunction solar cells. Each solar cell has an output of over 5 watts and an energy efficiency of 22%. PN Solar tests every aspect of its panels at a cellular level and uses a final output flash test to insure the quality and integrity of each PN396 Series solar panel.

Quality & Reliability

Every module is made with the highest attention to detail and precisely manufactured with the latest certified changes from the Research and Development department. Our panels are UL 1703 Certified and every piece of our panels is produced to survive the harshest conditions. We guarantee every panel which leaves our plant to be of top quality having surpassed every testing standard.



PN Solar 2015 ©

Warranties

30-Year limited warranty
Limited power warranty:
10 years at 90% of minimal rated power output,
30 years at 70% of the minimal rated output.

PN392 Data Sheet

*Specifications included in this data sheet are subject to change based on demand.



General Panel Information

| | |
|--------------------|---|
| Cell Type | N-Type, Heterojunction mono-crystalline |
| Cell Arrangement | 72 (6 X 12) |
| Dimensions | 1638 X 982 X 40 mm. (64.5 X 38.7 X 1.57 in.) |
| Weight | 20 kg (44.1 lbs) |
| Front Cover | 2.4mm Tempered Glass |
| Frame Material | Frameless |
| Standard Packaging | 10 Panels |

Operating Conditions

| | |
|--------------------------------------|--------------|
| Operating temperature [°C] | - 40 to + 85 |
| Max. wind load / Max. snow load [Pa] | 72 (6 X 12) |

Materials

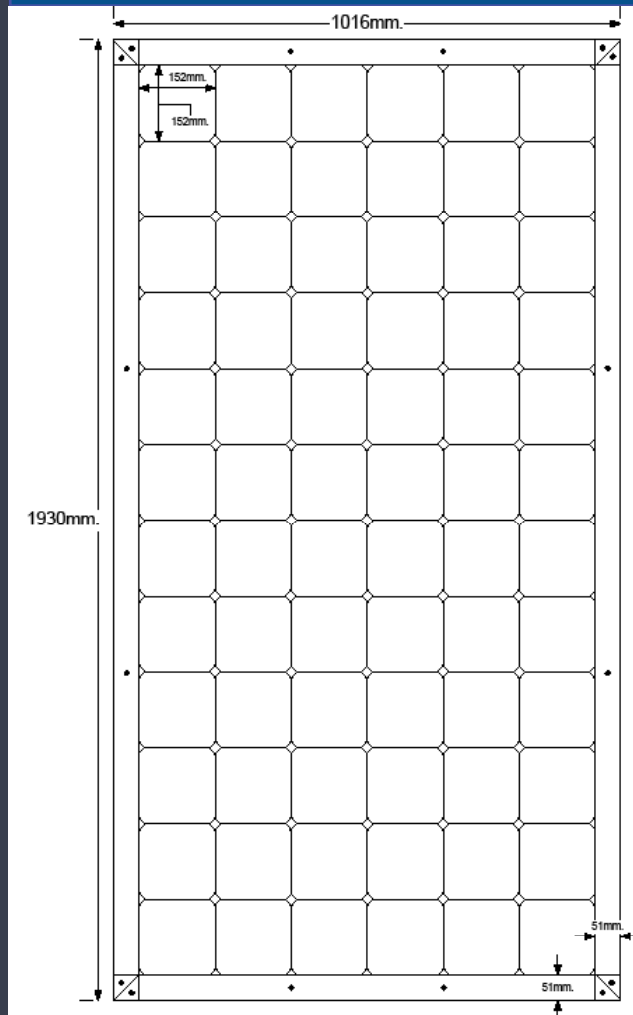
| | |
|------------------------|------------------------------|
| Encapsulation Material | Ethylene Vinyl Acetate (EVA) |
| Rear Cover | 2.4mm Tempered Glass |
| Junction box | Tyco Quick Connect |

Electrical information

| | |
|------------------------------------|-----------|
| Power Output | 392 Watts |
| Power Output Tolerances | +/- 3 % |
| Module Efficiency | 22% |
| Voltage at Pmax, V_{mpp} | 29.5 |
| Current at Pmax, I_{mpp} | 7.97 |
| Nominal Operating Cell Temperature | 46° C |

Our enhanced soldering process allows for a fine focal point thereby reducing stress on fragile solar cells while insuring outstanding solder quality. PN Solar uses a state of the art computer inspection station for every string of cells produced. This inspection station takes high resolution images and searches the surface for any minute cracks or imperfections. Any cell not which does not pass inspection is discarded immediately.

Panel Layout



I-V Curves

